

#### ABSTRACT OF THE DISCLOSURE

A pair of comb-tooth-shaped electrodes are formed on the same plane of a semiconductor substrate. A protection film composed of silicon nitride film and humidity sensing film of polyimide-based polymer covers the pair of comb-tooth-shaped electrodes. A moisture-permeable film having a higher dielectric constant than the humidity sensing film and also having moisture-permeability is formed on the humidity sensing film. By this structure, the variation of the electrostatic capacitance between the pair of comb-tooth-shaped electrodes which varies in accordance with humidity variation in the humidity sensing film is increased.